

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket No: 1137-P-00

In re patent application of

INOUE, MASAYORI et al.

Serial No. Unassigned

Filed: Concurrently Herewith

For: ANTIBACTERIAL ACTIVITY OF 4.5 DIHYDROXY-2-CYCLOPENTAN-1-ONE (DHCP)
AND CLONING A GENE CONFERRING DHCP RESISTANCE IN *ESCHERICHIA COLI*

STATEMENT TO SUPPORT FILING AND SUBMISSION IN
ACCORDANCE WITH 37 C.F.R. §§ 1.821-1.825

Assistant Commissioner for Patents
Washington, D.C. 20231

Box SEQUENCE

Sir:

In connection with a Sequence Listing submitted concurrently herewith, the undersigned hereby states that:

1. the submission, filed herewith in accordance with 37 C.F.R. § 1.821(g), does not include new matter;

2. the content of the attached paper copy and the attached computer readable copy of the Sequence Listing, submitted in accordance with 37 C.F.R. § 1.821(c) and (e), respectively, are the same; and

3. all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United

SEQUENCE LISTING

<110> INOUE, MASAYORI
PHADTARE, SANGITA
YAMANAKA, KUNITOSHI
KATO, IKUNOSHIN

<120> ANTIBACTERIAL ACTIVITY OF 4.5 DIHYDROXY-2-CYCLOPENTAN-1-ONE
(DHCP) AND CLONING A GENE CONFERRING DHCP RESISTANCE IN
ESCHERICHIA COLI

<130> 1137-P-00

<140>

<141>

<150> 60/228,727

<151> 2000-08-29

<160> 2

<170> PatentIn Ver. 2.1

<210> 1

<211> 3900

<212> DNA

<213> Escherichia coli

<400> 1

```

gccagccact cttccagctg acgcacggta tagctgaccg cagaaggaac gcgatgcagc 60
tctgtgccg cagcgctaaa actaccatta cgcgctaccg catcaacaac ttcgagtga 120
tattctgacc acatagtctg cctgcaaaat ttttgaaacc agtcatcaaa tattaccgtt 180
tcacaacact aatttcactc cctacacttt gcggcggtgt ttaattgaga gatttagaga 240
atatacatgc aacctgggaa aagattttta gtctggctgg cgggtttgag cgtactcgg 300
tttctggcaa ccgatatgta tctgcctgct ttcgcgcgca tacaggccga cctgcaaacg 360
cctgcgtctg ctgtcagtg cagccttagt ctgttccttg ccggttttgc cgcagcccag 420
cctctgtggg ggcgcgtctc cgaccgttat ggtcgtaaac cgggtattatt aatcggcctg 480
acaatttttg cgtaggttag tctggggatg ctgtgggtag aaaacgcgcg tacgctgctg 540
gtattgcgtt ttgtacaggc tgtgggtgtc tgcgcgcgcg cgggttatctg gcaagcatta 600
gtgacagatt attatccttc acagaaagtt aaccgtattt ttgcggccat catgccgctg 660
gtgggtctat ctccggcact ggctcctctg ttaggaagct ggctgctggg ccatttttcc 720
tggcaggcga ttttcgccac cctgtttgcc attaccgtgg tgcgtattct gcctattttc 780
tggctcaaac ccacgacgaa ggcccgtaac aatagtcagg atggtctgac ctttaccgac 840
ctgctacggt ctaaaaccta tcgcggcaac gtgctgatat acgcagcctg ttcagccagt 900
ttttttgcat ggctgaccgg ttcaccggtt atccttagtg aaatgggcta cagcccggca 960
gttattgggt taagttagt cccgcaaact atcgcgtttc tgattgggtg ttatggctgt 1020
cgcgccgcgc tgcagaaatg gcaaggcaag cagttattac cgtggttgct ggtgctggtt 1080
gctgtcagcg tcattgcgac ctgggctgcg ggcttcatta gccatgtgtc gctggtcgaa 1140
atcctgatcc cattctgtgt gatggcgatt gccaatggcg cgatctaccc tattgttgtc 1200
gccaggcgcg tgcgtccctt cccacacgca actggtcgcg ccgcagcggt gcagaacact 1260
cttcaactgg gtctgtgctt cctcgcaagt ctggtagttt cctggctgat cagtatcagc 1320
acgccattgc tcaccaccac cagcgtgatg ttatcaacag taatgctggg cgcgctgggt 1380
tacatgatgc aacgttgtga agaagttggc tgccagaatc atggcaatgc cgaagtgcgt 1440
catagcgaat cacactgacc tatatcgata tacttatact taggctgcta acaaaatttt 1500
gttgatgat tgaaattagc ggcctatact aatttcgagt tgtaaagct acgataaata 1560
ttatgttttt acggggacag gatcgttccc gactcactat ggatagtcac ttcggcaagg 1620
gttcctcctt tccctctggt ctacgtcgga ttatagactc gcggtttttt ctgcgagatt 1680
tctcaciaag cccaaaaaag gtctacgctg ttttaaggtt ctgatcaccg accagtgatg 1740

```

```

gagaaactat gagttcatcg tgtatagaag aagtcagtgt accgcatgac aactgggtacc 1800
gtatcgccaa cgaattactt agccgtgccc gtatagccat taacgggttct gccccggcgg 1860
atattcgtgt gaaaaacccc gattttttta aacgcgttct gcaagaaggc tctttggggg 1920
taggcgaaag ttatatggat ggctgggtggg aatgtgaccg actggatatg ttttttagca 1980
aagtccttac cgcagggtctc gagaaccaac tcccccatca tttcaaagac acgctgcgta 2040
ttgccggcgc tcgtctcttc aatctgcaga gtaaaaaacg tgcctggata gtcggcгааг 2100
agcattacga tttgggtaat gacttggttc gccgcatgct tgatcccttc atgcaatatt 2160
cctgcgctta ctggaaagat gccgataatc tggaatctgc ccagcaggcg aagctcaaaa 2220
tgatttgtga aaaattgcag ttaaaaccag ggatgcgcgt actggatatt ggctgcggct 2280
ggggcggact ggcacactac atggcatcta attatgacgt aagcgtgggtg ggcgtcacca 2340
tttctgccga acagcaaaaa atggctcagg aacgctgtga aggcctggat gtcaccattt 2400
tgctgcaaga ttatcgtgac ctgaacgacc agtttgatcg tattgtttct gtggggatgt 2460
tcgagcacgt cggaccgaaa aattacgata cctattttgc ggtggtggat cgtaatttga 2520
aaccggaagg catattcctg ctccatacta tcggttcgaa aaaaaccgat ctgaatgttg 2580
atccctggat taataaatat atttttccga acggttgctt gccctctgta cgccagattg 2640
ctcagtcacg cgaaccccac tttgtgatgg aagactggca taacttcggt gctgattacg 2700
atactacgtt gatggcgtgg tatgaacgat tcctcgccgc atggccagaa attgcggata 2760
actatagtga acgctttaaa cgaatgttta cctattatct gaatgcctgt gcagggtgctt 2820
tcgcgcggcg tgatattcag ctctggcagg tcgtgttctc acgcggtgtt gaaaacggcc 2880
ttcgagtggc tcgctaaagg ctattctatc gccctctc cgggggcgat ttcagatcag 2940
gcttctgtgc ctggttgatt catggcattt tctcgtgccg ccagcacacg ttctaccgta 3000
tctaccactg cctgagtttg tggatcgatt tcaatgttga cgcgtgcgcc aagtttttct 3060
ttcccaagag tcgtgcgttc cagtgtttcc ggaattaaat ggacgcaaaa acgcgttggc 3120
gtgacttcgc cgacggtcag gctaataccg tcgatgccaa taaatccttt gtacagaata 3180
tatttcatca actgactatc ctggacttta aaccagatct ggcgattatt ttctgaggtt 3240
aatattttcg ccacttcagc agtggtcata atatgacctg acattaagtg tccgccaatt 3300
tcatcactga atttcgccgc acgctcaacg tttacccaat cccccaactt taaatcgcca 3360
agattggtaa tcgctaacgt ttctttcatc aggtcaaaac tgacatggtt gccgttaatt 3420
tcgctcacgg tcaggcagca cctcttatgc gccacggaag caccggtttc caggccgtcc 3480
agcatgtggt cgggtaactc caccacatgc gtacgaaaat ttgggttctc gtcgaatcgac 3540
accagttttg cggtgccctg tacaatcccc gtaaacatac ttacaactcc tgaaatcagt 3600
taagacattc tgttcagcac aatagcaggt ggaaaacgcc cttaccagtg aaggggtaag 3660
aatggctatt ttttactgg agaattaata aatcctcgct acaatagact gaatttcccc 3720
tgcttcttct ttttgcgtgc cattcaggcg gcttttttagt ctctcatata actacaaata 3780
aaaggtgttc acgtgcagaa gtatatcagt gaagcgcgctc tgttatttagc attagcaatc 3840
ccggtgattc tcgcgcaaat cgcccaaact gcgatgggtt ttgtcagtag cgtgatggcg 3900

```

<210> 2

<211> 1212

<212> DNA

<213> Escherichia coli

<400> 2

```

atgcaacctg ggaaaagatt tttagtctgg ctggcggggt tgagcgtact cggttttctg 60
gcaaccgata tgtatctgcc tgctttcgcc gccatacagg ccgacctgca aacgcctgcg 120
tctgctgtca gtgccagcct tagtctgttc cttgcgggtt ttgccgcagc ccagcttctg 180
tgggggccgc tctccgaccg ttatggctcg aaaccggtat tattaatcgg cctgacaatt 240
tttgcgttag gtagtctggg gatgctgtgg gtagaaaaac ccgctacgct gctggtattg 300
cgttttgtac aggctgtggg tgtctgcgcc gcggcggtta tctggcaagc attagtgaca 360
gattattatc cttcacagaa agttaaccgt atttttgcgg ccatcatgcc gctggtgggt 420
ctatctccgg cactgggtcc tctgttagga agctggctgc tgggtccattt ttcctggcag 480
gcgattttcg ccacctgtt tgccattacc gtggtgctga ttctgcctat tttctggctc 540
aaaccacga cgaaggcccg taacaatagt caggatggtc tgacctttac cgacctgcta 600
cgttctaaaa cctatcgcg caacgtgctg atatacgcag cctgttcagc cagttttttt 660
gcatggctga ccggttcacc gttcatcctt agtgaaatgg gctacagccc ggcagttatt 720
ggtttaagtt atgtcccgca aactatcgcg tttctgattg gtggttatgg ctgtcgcgcc 780
gcgctgcaga aatggcaagg caagcagtta ttaccgtggt tgctggtgct gtttgcgtgc 840

```

[illegible]